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Allen et al.

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(54) **POLYMERIC MATERIAL COMPRISING N, P, S, AS, OR SE AND COMPOSITION FOR CHARGE TRANSPORT MATERIAL**

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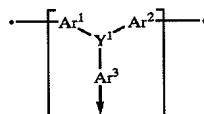
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ABSTRACT
A polymeric material comprises at least one repeat unit consisting substantially of a moiety of Formula 1:

Formula 1



in which Y¹ represents N, P, S, As and/or Se, Ar¹ and Ar², which may be the same or different, represent independently a multivalent, optionally substituted aromatic group, and Ar³ represents independently a mono or multivalent, optionally substituted aromatic group. At least one terminal group is attached in the polymer to the Ar¹, Ar² and optionally Ar³ groups located at the end of the polymer chains, so as to cap the polymer chains and prevent further polymer growth. At least one terminal group is derived from at least one end capping reagent used in the polymerisation to form the polymeric material to control the molecular weight thereof. A charge transport material comprising such polymers is useful in electroreprographic and electroluminescent devices. These polymers may be made by controlling their molecular weight with an end capping reagent.

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13 Claims, 5 Drawing Sheets

